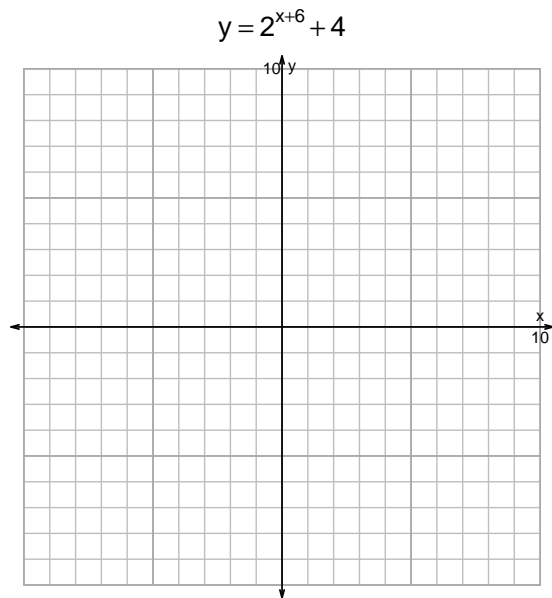
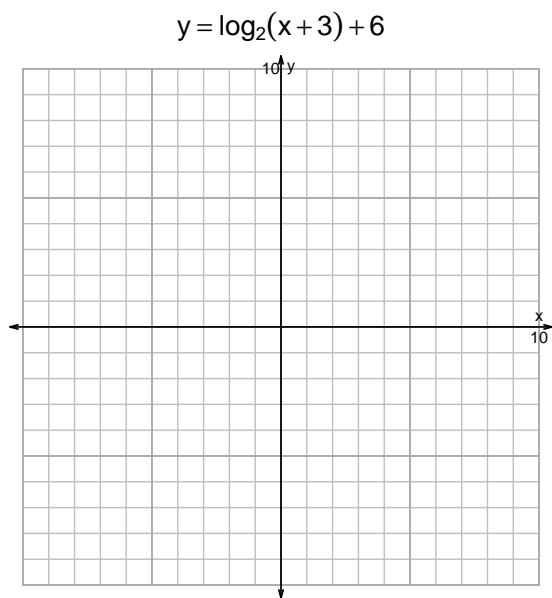


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v260)

1. Graph $y = \log_2(x + 3) + 6$ and $y = 2^{x+6} + 4$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$19 = \left(\frac{5}{3}\right) \cdot 10^{-4t/7}$$

3. An exponential function $f(x) = 73.6 \cdot e^{-1.79x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(2.6)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(6)$.